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May 30, 2002
By Michelle Chan
Michelle Chan



PATENT
100/13010

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

RING-LING CHIEN et al.

Application No.: 10/076,136

Filed: February 14, 2002

For: MICROFLUIDIC SYSTEMS WITH
ENHANCED DETECTION
SYSTEMS

Examiner: To be Assigned

Art Unit: 1741

SUPPLEMENTAL PRELIMINARY
AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination on the merits, Applicants respectfully request entry and consideration of the following amendments and remarks.

IN THE SPECIFICATION:

Please replace the paragraph which begins on page 15, line 1 with the following:

Electrokinetic material direction systems in microfluidic channel networks typically include electrodes placed at the termini of the various channels of the channel network, e.g., at reservoirs or ports disposed at those unintersected termini. Each electrode is then coupled to one or more power supplies that deliver controlled electrical currents through the channels of the device to drive the movement of material either through electrophoresis or electroosmosis. Examples of such systems include the Agilent 2100 Bioanalyzer and associated Caliper LabChip® microfluidic devices. Electrokinetic control of material movement in microfluidic